

Please amend the application as follows:

IN THE SPECIFICATION

Please amend the paragraph starting at page 1 line 2 to read as follows:

A1
The subject invention relates to a magneto-resistive CrO_2 polymer composite blend for use in magnetic storage devices, such as in audio and video tapes, magnetic read heads, magnetic field probes, or current voltage sensors in electrical devices and the process for preparation of the same to provide a matrix for conducting and magnetic fillers to form a blend which in turn shows the desired magneto-resistive property.

Please amend the paragraph starting at page 2 line 1 to read as follows:

A2
K. Chanhara et al., Applied Physics Letters, Vol 63 (14), at 1990; R Von Helmholt et al., Physical Review Letters Vol. 71 (14) at 2331; and U.S. Patents Nos 5,549,977 and 5,538,800 teach that desirable MR has been observed in mixed metal oxides, e.g. La-Ca-Mn-O, La-Ba-Mn-O and La-Sr-Mn-O. The magneto resistance of La-Sr-Mn-O perovskites, appears to be better in polycrystalline samples, as opposed to single crystals, possibly due to spin-polarized tunneling of electrons between grains.

Please amend the paragraph starting at page 3 line 10 to read as follows:

A3
Electrically conducting polymer composite materials exhibiting positive temperature coefficient of resistance effect have been in use in resistance switching devices for many years. These materials are characterized by a switch temperature at which the material resistivity changes by orders of magnitude. The most studied polymer composite system which exhibits this effect consists of polyethylene loaded with carbon black. At temperatures below 130°C , i.e. below the melting point of polyethylene there is an anomalous resistance which raises by orders of magnitude. This increase in resistance is believed to be due to the increased carbon black particle